

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Grigorii Lev Soloveichik et al.

Group Art Unit:

Serial No.:

Examiner:

Filed:

For CONTINUOUS PREPARATION OF
4,4'-DISSOPROPYLBIPHENYL**"EXPRESS MAIL" MAILING
LABEL NUMBER**EV.300768003US**INFORMATION DISCLOSURE STATEMENT**

- ☒ 1 **Pursuant to 37CFR 1.97(b)**
[within 3 months of national, non-CPA filing or prior to 1st Office Action] *no charge*
- ☐ 2 **Certification Pursuant to 37 CFR 1.97(c)(1)**
[before Final Office Action, Allowance, or other action closing prosecution] *no charge*
- ☐ 3 **Fee Payment Pursuant to 37 CFR 1.97(c)(2)**
[before Final Office Action, Allowance, or other action closing prosecution] *\$180.00*
- ☐ 4 **Certification & Fee Payment Pursuant to 37 CFR 1.97(d)**
[On or before issue fee payment] *\$180.00*

ATTN: BOX PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98:

- ☒ 5 A list of documents on form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below.	
_____	Date of Deposit
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This paper is submitted in accordance with:

- ☒ 6 37 CFR 1.97(b): [within 3 months of national, non-CPA filing or prior to 1st Office Action]
- ☐ 7 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- ☐ 8 The required Certification made in item 11 below;
- ☐ 9 ^{or} The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 15 below.
- ☐ 10 37 CFR 1.97(d): [on or before issue fee payment]; and
- a) The required Certification is stated in item 11 below; and
- b) The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.
- ☐ 11 Certification
- ☐ 12 Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- ☐ 13 No item contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.
- ☒ 14 Payment of all applicable fees:
- ☒ 15 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 07-0868

An original and two (2) copies of this document are enclosed.

Respectfully submitted,

December 17, 2003

Date

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
126732-2

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
LIST OF ITEMSApplicant
Grigorii Lev Soloveichik et al.

Filing Date

Group

U.S. PATENT DOCUMENTS & PATENT APPLICATION PUBLICATION

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	3,442,795	5/6/69	Kerr et al.		
	A2	5,015,797	5/14/91	Lee et al.		
	A3	5,200,168	4/6/93	Apelian et al.		
	A4	5,238,677	8/24/93	Apelian et al.		
	A5					
	A6					
	A7					
	A8					
	A9					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	B1					
	B2					
	B3					
	B4					
	B5					

OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, etc.)

	C1	G. Kamalakar et al., "Vapour Phase Isopropylation of Biphenyl Over Modified Molecular Sieve Catalysts", Indian Journal of Chemical Technology, Volume 6, No. 2, pp 71-74, March 1999.
	C2	D. Vergani et al., "Isopropylation of Biphenyl Over Dealuminated Mordenite", Applied Catalysis A, General 163, pp 71-81, 1997.
	C3	D. B. Priddy, "Alkylation of Biphenyl Under Mild Friedel-Crafts Conditions", I & EC Product Research and Development, Volume 8, No. 3, pp 239-241, September 1969.
	C4	G. S. Lee et al., "Shape Selective Alkylation of Polynuclear Aromatics With Mordenite-Type Catalysts: A High Yield Synthesis of 4,4'-Diisopropylbiphenyl", Catalysis Letters, 2, pp 243-247, 1989.
	C5	Y. Sugi, et al., "The Effect of Propylene Pressure on Shape-Selective Isopropylation of Biphenyl Over H-Mordenite", Catalysis today, 31, 3 (1996).
	C6	T. Hanaoka et al., "Effects of SiO ₂ /Al ₂ O ₃ Ratio of H-Mordenite on Encapsulated Products Inside the Pores in Shape-Selective Isopropylation of Biphenyl", Catalysis Letters, 50, 149 (1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant